PATENT ABSTRACTS OF JAPAN

(11) Publication number :   2000-268016

(43) Date of publication of application : 29.09.2000

(51) Int.CI.

GO6F 15/177
GO5B 15/02
GO5B 19/05
GO6F 13/00

(21) Application number : 11-068579   (71) Applicant : OMRON CORP

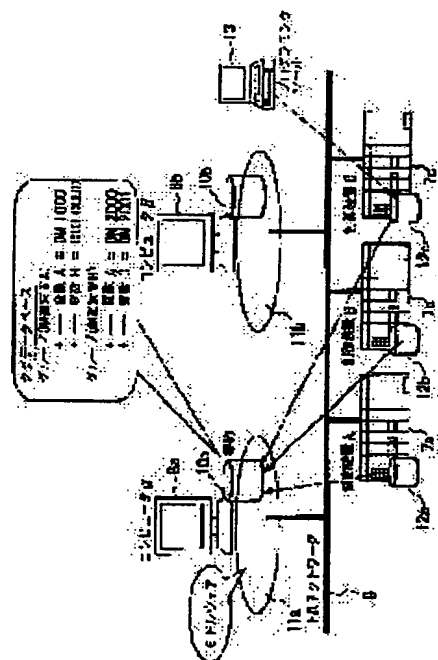(22) Date of filing :   15.03.1999   (72) Inventor : HITOMI SHIGERU

(54) **DISTRIBUTED CONTROL SYSTEM AND ITS CONSTITUTING ELEMENT**

(57) Abstract:

PROBLEM TO BE SOLVED: To share allocation
changing information with a logical name and a
physical address with all the computers by
updating tag data based on information from a
controller holding allocation data of the
physical address and its logical name.
SOLUTION: Computers 8a and 8b hold tag
databases (TDB) 10a and 10b showing an
allocating relation between the physical
address on an input/output signal handled by
controllers 7a to 7c respectively through an FA
network 9 and its logical name. Middlewares 11a
and 11b as access supporting means accesses to
the input/output signal after converting the
logical name to the physical address by
referring to the TDBs 10a, 10b and update the
TDB 10a and 10b based on local data bases 12a
to 12c sucked from the controllers 7a to 7c.
Consequently, when allocation change between
the logical name and the physical address is executed concerning one of the
controllers, its changing information can immediately be shared with all the
computers.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's
decision of rejection]

[Kind of final disposal of application
other than the examiner's decision of
rejection or application converted
registration]

[Date of final disposal for
application]

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[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against
examiner's decision of rejection]

[Date of extinction of right]

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